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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/895,185      | 07/02/2001  | Naotsugu Itoh        | 35.C15525           | 8765             |

5514 7590 07/18/2005

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30 ROCKEFELLER PLAZA  
NEW YORK, NY 10112

EXAMINER

GRANT II, JEROME

| ART UNIT | PAPER NUMBER |
|----------|--------------|
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2626

DATE MAILED: 07/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Supplemental  
Notice of Allowability**

Application No.

09/895,185

Examiner

Jerome Grant II

Applicant(s)

ITOH, NAOTSUGU

Art Unit

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**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 4-22-2005.
2. ☒ The allowed claim(s) is/are 1-13.
3. ☒ The drawings filed on 02 July 2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

**JEROME GRANT II  
PRIMARY EXAMINER**

### **Examiner's Amendment**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Frank Cire on July 13, 1005.

#### **In the Claims:**

9. (Currently Amended by the Examiner) A computer readable storage medium which stores a control program to control an image processing apparatus, said program comprising:

a numerical signal generation module of sequentially generating and outputting regular binary numerical signals in synchronism with a clock signal;

a bit conversion module of generating and outputting, from the output signal in said numerical signal generation module being managed as an input signal, a signal that order of bits in the input signal has been exchanged or a signal that value of bit in the input signal have been reversed; and

a control module of controlling the bit order exchange operation or the bit value reversal operation in said bit conversion module;

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wherein image data divided into pixel data and one-dimensionally arranged and stored in a memory is read and output in synchronism with the sequential operation in said numerical signal generation module, and the output signal generated in said bit conversion module is read and output as an address signal, so that a rotation and/or reversal rotation/reversal process to a former image is performed.

10. (Currently Amended by the Examiner) A computer readable storage medium which stores a control program to control an image processing apparatus, said program comprising:

a numerical signal generation module of sequentially generating and outputting regular binary numerical signals in synchronism with a clock signal;

a bit conversion module of generating and outputting, from the output signal in said numerical signal generation module being managed as an input signal, a signal that order of bits in the input signal has been exchanged or a signal that value of bit in the input signal has been reversed; and

a control module of controlling the bit order exchange operation or the bit value reversal operation in said bit conversion module, wherein image data is written in a memory in synchronism with the sequential operation in said numerical signal generation module and by using the output signal generated in said bit conversion module as an address signal and the image data written in the memory is read according to addresses of predetermined order, so that a rotation and/or reversal process to a former image is performed.

13. (Currently Amended by the Examiner) A computer readable storage medium which stores a control program to control an image processing apparatus, said control program comprising:

- an input module of inputting a block image and positional information of the block image;

- an image rotation and /or reversal processing module of rotating or reversing the input block image by a block, and outputting the rotated or reversed block image; and

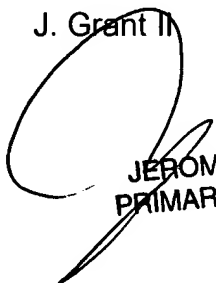
- a conversion module of converting the positional information of the input block image into the positional information of the image after the rotation or the reversal, wherein the conversion in said conversion module is a process corresponding to the content of the image rotation or the image reversal in said image rotation and /or reversal processing module, and in the conversion, the positional information for the entire image before the rotation or the reversal where the block image stands is converted into the positional information for the entire image after the image rotation or the image reversal in said image rotation and/or reversal processing module, and the converted positional information is added to the rotated or reversed block image and output.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerome Grant II whose telephone number is 571-272-7463. The examiner can normally be reached on Mon.-Fri. from 9:00 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly A. Williams, can be reached on 571-272-7471. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

J. Grant II

  
JEROME GRANT II  
PRIMARY EXAMINER